

Titles of most frequently occurring classifications of patents returned
from a search of 10583717 on Mar 25, 2009

- 14 704/226 (7 OR, 7 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/201 .. For storage or transmission
 704/226 ... Noise
- 9 704/233 (4 OR, 5 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/231 .. Recognition
 704/233 ... Detect speech in noise
- 8 704/219 (1 OR, 7 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/201 .. For storage or transmission
 704/219 ... Linear prediction
- 7 704/221 (4 OR, 3 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/201 .. For storage or transmission
 704/221 ... Pattern matching vocoders
- 6 704/E19.006 (0 OR, 6 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/E19.001 . SPEECH OR AUDIO SIGNAL ANALYSIS-SYNTHESIS TECHNIQUES FOR
 REDUNDANCY REDUCTION, E.G., IN VOCODERS, ETC.; CODING OR DECODING OF SPEECH OR AUDIO
 SIGNALS; COMPRESSION OR EXPANSION OF SPEECH OR AUDIO SIGNALS, E.G., SOURCE-FILTER
 MODELS, PSYCHOACOUSTIC ANALYSIS, ETC. (EPO)
 704/E19.006 .. Comfort noise, silence coding (EPO)
- 6 704/E21.004 (0 OR, 6 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/E21.001 . MODIFICATION OF AT LEAST ONE CHARACTERISTIC OF SPEECH WAVES
 (EPO)
 704/E21.002 .. Speech enhancement, e.g., noise reduction, echo
 cancellation, etc. (EPO)
 704/E21.003 ... Applications (EPO)
 704/E21.004 ... Speech corrupted by noise (EPO)
- 5 704/229 (0 OR, 5 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/201 .. For storage or transmission
 704/229 ... Adaptive bit allocation
- 5 704/E19.041 (0 OR, 5 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/E19.001 . SPEECH OR AUDIO SIGNAL ANALYSIS-SYNTHESIS TECHNIQUES FOR
 REDUNDANCY REDUCTION, E.G., IN VOCODERS, ETC.; CODING OR DECODING OF SPEECH OR AUDIO

- SIGNALS; COMPRESSION OR EXPANSION OF SPEECH OR AUDIO SIGNALS, E. G., SOURCE-FILTER MODELS, PSYCHOACOUSTIC ANALYSIS, ETC. (EPO)
- 704/E19.023 ..Using predictive techniques; codecs based on source-filter modelization (EPO)
 - 704/E19.039 ...Details of speech and audio coders (EPO)
 - 704/E19.04Vocoder architecture (EPO)
 - 704/E19.041Vocoders using multiple modes (EPO)
- 5 381/94.3 (4 OR, 1 XR)
- Class 381 ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
 - 381/94.1 NOISE OR DISTORTION SUPPRESSION
 - 381/94.2 ..Spectral adjustment
 - 381/94.3 ...In multiple frequency bands
- 4 455/570 (2 OR, 2 XR)
- Class 455 TELECOMMUNICATIONS
 - 455/73 ..TRANSMITTER AND RECEIVER AT SAME STATION (E. G., TRANSCIVER)
 - 455/550.1 ..Radiotelephone equipment detail
 - 455/569.1 ...Hands-free or loudspeaking arrangement
 - 455/570Noise suppression or echo cancellation
- 3 704/E19.035 (0 OR, 3 XR)
- Class 704 DATA PROCESSING; SPEECH SIGNAL PROCESSING; LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 - 704/E19.001 ..SPEECH OR AUDIO SIGNAL ANALYSIS-SYNTHESIS TECHNIQUES FOR REDUNDANCY REDUCTION, E. G., IN VOCODERS, ETC.; CODING OR DECODING OF SPEECH OR AUDIO SIGNALS; COMPRESSION OR EXPANSION OF SPEECH OR AUDIO SIGNALS, E. G., SOURCE-FILTER MODELS, PSYCHOACOUSTIC ANALYSIS, ETC. (EPO)
 - 704/E19.023 ..Using predictive techniques; codecs based on source-filter modelization (EPO)
 - 704/E19.026 ...Determination or coding of the excitation function; determination or coding of the long-term prediction characteristics (EPO)
 - 704/E19.035Determination or coding of a code excitation; code excited linear prediction (CELP) vocoders (EPO)
- 3 379/386 (1 OR, 2 XR)
- Class 379 TELEPHONIC COMMUNICATIONS
 - 379/350 ..SUPERVISORY OR CONTROL LINE SIGNALING
 - 379/386 ..Signal receiver (e.g., tone decoder)
- 3 379/283 (0 OR, 3 XR)
- Class 379 TELEPHONIC COMMUNICATIONS
 - 379/242 ..CENTRALIZED SWITCHING SYSTEM
 - 379/258 ..Switching controlled in response to called station
 - addressing signal 379/268 ...Having shared or common switching control
 - 379/280Including registering or storing device for call address
 - signal 379/282Voice frequency receiver
 - 379/283Dual tone multifrequency (DTMF) receiver
- 3 379/406.08 (3 OR, 0 XR)
- Class 379 TELEPHONIC COMMUNICATIONS
 - 379/406.01 ..ECHO CANCELLATION OR SUPPRESSION
 - 379/406.06 ..Using digital signal processing
 - 379/406.08 ...Adaptive filtering
- 3 370/290 (0 OR, 3 XR)
- Class 370 MULTIPLEX COMMUNICATIONS
 - 370/276 ..DUPLEX
 - 370/282 ..Transmit/receive interaction control
 - 370/286 ...Echo suppression or cancellation

- 3 704/214 (1 OR, 2 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/201 .. For storage or transmission
 704/211 ... Timing
 704/214 Voiced or unvoiced
- 3 704/224 (0 OR, 3 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/201 .. For storage or transmission
 704/224 ... Normalizing
- 3 704/E19.043 (0 OR, 3 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/E19.001 . SPEECH OR AUDIO SIGNAL ANALYSIS-SYNTHESIS TECHNIQUES FOR
 REDUNDANCY REDUCTION, E.G., IN VOCODERS, ETC.; CODING OR DECODING OF SPEECH OR AUDIO
 SIGNALS; COMPRESSION OR EXPANSION OF SPEECH OR AUDIO SIGNALS, E.G., SOURCE-FILTER
 MODELS, PSYCHOACOUSTIC ANALYSIS, ETC. (EPO)
 704/E19.023 .. Using predictive techniques; codecs based on source-filter
 modelization (EPO)
 704/E19.039 ... Details of speech and audio coders (EPO)
 704/E19.04 Vocoder architecture (EPO)
 704/E19.041 Vocoders using multiple modes (EPO)
 704/E19.043 Mode decision, i.e., based on audio signal content
 versus external parameter (EPO)
- 3 704/E19.044 (0 OR, 3 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/E19.001 . SPEECH OR AUDIO SIGNAL ANALYSIS-SYNTHESIS TECHNIQUES FOR
 REDUNDANCY REDUCTION, E.G., IN VOCODERS, ETC.; CODING OR DECODING OF SPEECH OR AUDIO
 SIGNALS; COMPRESSION OR EXPANSION OF SPEECH OR AUDIO SIGNALS, E.G., SOURCE-FILTER
 MODELS, PSYCHOACOUSTIC ANALYSIS, ETC. (EPO)
 704/E19.023 .. Using predictive techniques; codecs based on source-filter
 modelization (EPO)
 704/E19.039 ... Details of speech and audio coders (EPO)
 704/E19.04 Vocoder architecture (EPO)
 704/E19.041 Vocoders using multiple modes (EPO)
 704/E19.044 Variable rate or variable quality codecs, e.g.,
 scalable representation encoding, etc. (EPO)
- 3 704/E19.003 (0 OR, 3 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/E19.001 . SPEECH OR AUDIO SIGNAL ANALYSIS-SYNTHESIS TECHNIQUES FOR
 REDUNDANCY REDUCTION, E.G., IN VOCODERS, ETC.; CODING OR DECODING OF SPEECH OR AUDIO
 SIGNALS; COMPRESSION OR EXPANSION OF SPEECH OR AUDIO SIGNALS, E.G., SOURCE-FILTER
 MODELS, PSYCHOACOUSTIC ANALYSIS, ETC. (EPO)
 704/E19.003 .. Correction of errors induced by the transmission channel,
 if related to the coding (EPO)
- 3 704/200.1 (2 OR, 1 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/200.1 ... Psychoacoustic

- 3 704/E15.039 (0 OR, 3 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/E15.001 . SPEECH RECOGNITION (EPO)
 704/E15.039 .. Speech recognition techniques for robustness in adverse
 environments, e.g., in noise, of stress induced speech, etc. (EPO)
- 3 704/225 (0 OR, 3 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/201 .. For storage or transmission
 704/225 ... Gain control
- 2 704/201 (0 OR, 2 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/201 .. For storage or transmission
- 2 704/222 (0 OR, 2 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/201 .. For storage or transmission
 704/221 ... Pattern matching vocoders
 704/222 Vector quantization
- 2 704/223 (2 OR, 0 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/201 .. For storage or transmission
 704/221 ... Pattern matching vocoders
 704/223 Excitation patterns
- 2 379/388.04 (0 OR, 2 XR)
 Class 379 TELEPHONIC COMMUNICATIONS
 379/387.01 . SUBSTATION OR TERMINAL CIRCULARITY
 379/388.01 .. For loudspeaking terminal
 379/388.04 ... Voice control of transmission direction
- 2 704/E21.001 (0 OR, 2 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/E21.001 . MODIFICATION OF AT LEAST ONE CHARACTERISTIC OF SPEECH WAVES
 (EPO)
- 2 381/320 (1 OR, 1 XR)
 Class 381 ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
 381/312 . HEARING AIDS, ELECTRICAL
 381/320 .. Spectral control
- 2 704/227 (0 OR, 2 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/201 .. For storage or transmission
 704/226 ... Noise
 704/227 Pretransmission